[0178] The display **1600**, for example, may include a liquid crystal display (LCD), an light emitting diode (LED) display, an organic LED (OLED) display, a micro electromechanical system (MEMS) display, or an electronic paper display. For example, the display **1600** may display a variety of content (e.g., text, images, videos, icons, symbols, or the like) to the user. The display **1600** may include a touch screen, and may receive a touch input, a gesture input, a proximity input, or a hovering input by using electronic pens or a user's body part.

[0179] The communication interface **1700**, for example, may configure communication between the electronic device **1010** and external devices (e.g., a first external electronic device **1020**, a second external electronic device **1040**, or a server **1060**). For example, the communication interface **1700** may be connected to the network **1620** through wireless communication or wired communication in order to thereby communicate with the second external electronic device **1040**, or the server **1060**. The communication interface **1700** may include a communication processor (CP), and the communication processor may constitute one to a plurality of modules constituting the communication interface **1700**. The communication processor may be included in the processor **1200**.

[0180] For example, the wireless communication may use, as a cellular communication protocol, at least one of long term evolution (LTE), LTE Advance (LTE A), code division multiple access (CDMA), wideband CDMA (WCDMA), a universal mobile telecommunications system (UMTS), Wireless Broadband (WiBro), Global System for Mobile Communications (GSM), or the like. In addition, the wireless communication, for example, may include a short-range communication **1640**. The short-range communication **1640**, for example, may include at least one of wireless fidelity (WiFi), Bluetooth, near field communication (NFC), or a global navigation satellite system (GNSS). The GNSS, for example, may include at least one of a global positioning system (GPS), a Glonass (global navigation satellite system), a Beidou Navigation Satellite System (Beidou), or Galileo, the European global satellite based navigation system according to the usage area or bandwidth. Hereinafter, "GPS" may be interchangeably used with "GNSS" in the present specification. For example, the wired communication may include at least one of a universal serial bus (USB), a high definition multimedia interface (HDMI), recommended standard 232 (RS-232), or plain old telephone service a (POTS). The network **1620** may include at least one of the telecommunication networks, such as a computer network (e.g., local area network (LAN) or wide area network (WAN)), the Internet, or a telephone network.

[0181] The first external electronic device **1020** and the second external electronic device **1040** may be the same as, or different from, the electronic device **1010** in its type. The server **1060** may include a group of one or more servers. At least some, or all, of the operations that are executed in the electronic device **1010** may be executed by the electronic device **1020** or **1040**, or the server **1060**. In the case where the electronic device **1010** executes a specific function or service automatically or by request, the electronic device **1010** may make a request to the electronic device **1020** or **1040**, or the server **1060** for at least some of the functions related to the function or service additionally or instead of executing the same by itself. The electronic device **1020** or **1040**, or the server **1060** may execute the requested function or additional function, and may transfer the result thereof to the electronic device **1010**. The electronic device **1010** may provide the requested function or service by providing the result or by additionally processing the same. To this end, for example, cloud computing, distributed computing, or client-server computing technology may be used.

[0182] FIG. **44** is a block diagram of an electronic device **2010**, according to an embodiment of the present disclosure. The electronic device **2010**, for example, may include all or some of the elements of the electronic device **1010** shown in FIG. **43**. The electronic device **2010** may include one or more processors (e.g., application processors (AP)) **2100**, a communication module **2200**, a memory **2300**, a sensor module **2400**, an input device **2500**, and a display **2600**. The electronic device **2100** may include at least one of a subscriber identification module **2240**, an interface **2700**, an audio module **2800**, a camera module **2910**, a power management module **2950**, a battery **2960**, an indicator **2970**, or a motor **2980**.

[0183] The processor **2100**, for example, may control a multitude of hardware or software elements connected with the processor **2100**, and may perform the processing of various pieces of data and a calculation by executing an operating system or application programs. The processor **2100** may be implemented by, for example, a system on chip (SoC). The processor **2100** may further include a graphic processing unit (GPU) and/or an image signal processor. The processor **2100** may include at least some (e.g., a cellular module **2210**) of the elements shown in FIG. **44**. The processor **2100** may load instructions or data received from one or more other elements (e.g., a non-volatile memory) to a volatile memory to then process the same, and may store a variety of data in a non-volatile memory.

[0184] The communication module **2200** may have the same or a similar configuration as the communication interface **1700** of FIG. **43**. The communication module **2200**, for example, may include at least one of the cellular module **2210**, a WiFi module **2230**, a Bluetooth module **2250**, a GNSS module **2270** (e.g., a GPS module, a Glonass module, a Beidou module, or the Galileo module), an NFC module **2280**, or a radio frequency (RF) module **2290**.

[0185] The cellular module **2210**, for example, may provide services of voice calls, video calls, text messaging, or the Internet through communication networks. The cellular module **2210** may perform identification and verification of the electronic device **2010** in communication networks by using the SIM **2240**. The cellular module **2210** may perform at least some of the functions provided by the processor **2100**. The cellular module **2210** may include a communication processor (CP).

[0186] For example, each of the WiFi module **2230**, the Bluetooth module **2250**, the GNSS module **2270**, or the NFC module **2280** may include a processor for processing data transmitted and received through the corresponding module. At least some (e.g., two or more) of the cellular module **2210**, the WiFi module **2230**, the Bluetooth module **2250**, the GNSS module **2270**, or the NFC module **2280** may be included in one integrated chip (IC) or one IC package.

[0187] The RF module **2290** may transmit and receive communication signals (for example, RF signals). The RF module **2290** may include, for example, a transceiver, a power amp module (PAM), a frequency filter, a low noise amplifier (LNA), antennas, or the like. At least one of the cellular module **2210**, the WiFi module **2230**, the Bluetooth